

A.S.H. Hitchcock

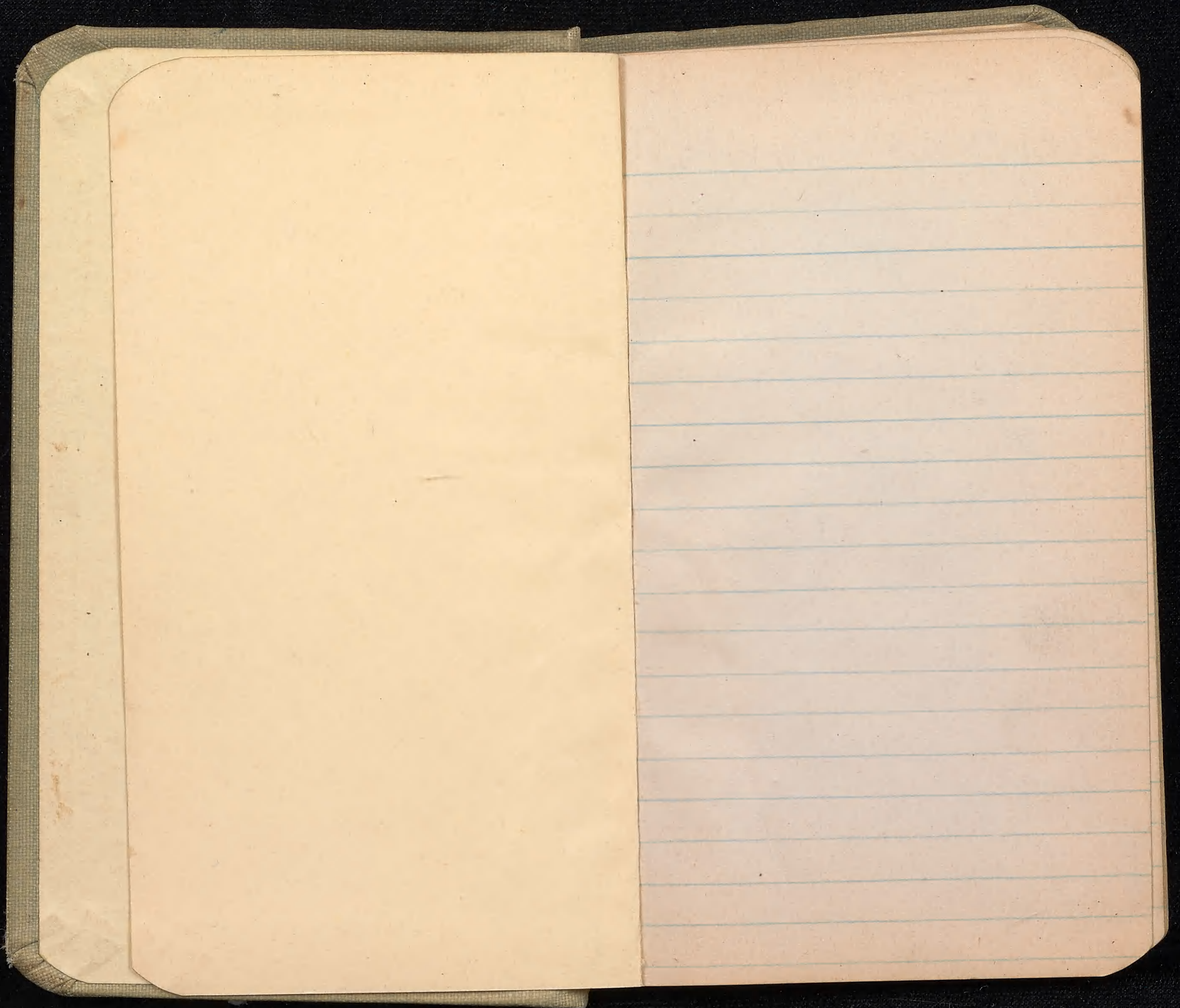
14061-14533

2.6

I
1911

I
n
A





~~Pala~~ July 19 (contd)

14061

*Optomeles anthyllidi-
folia* Lindl.

14062

fern

Polypodium lineare Thunb.

14063

lichen

14064

Bouillon

14065

Chaetochloa
next to
discovered
+ 1550
in place
#10

set

Shrub

Coll. Martz in near Sp.
Sta on Zantales

Ward in Sp. Sta. ground
Honolulu

14066 *Chloris*
paraguayensis
Set

Weed along roadside
Honolulu

14067 *Paspalum*
conjugatum
Set

Weed along roadside
Honolulu - Kilo grass

14068 *Cenchrus*
ciliaris
Set

Weed in type of
grasses - Honolulu

14069 *Heteropogon*
contortus
Set

Rocky hillside - Punch
Bowl - Honolulu

14070 *Sporobolus*
(indicus)
Set
14

Grass land along
street

(44 spec. alt. H)

14071 *Andropogon*
(*canadensis*)

Escaped from Exp.
the (bush)

14072 *Paspalum*
dilatatum

ditto

14073 *Andropogon*
saccharatus

ditto

14074 *Eragrostis*
amabilis

Set. 1/2
There are 30 spec

14075 *Santalum*
Set

(15074) is a *lobelia*

Set. July 29, 1916

Santalum half way up

14076

Panicum

Chattahoochee
mountains

set

14077

(*set*)

set

14078

Aug. 1, 1916,

Manoa Valley

Carina indica

14079

Euphorbia hypericifolia L.

14080

Aug. 1, 1916 Manoa Valley
from end of car line to
bottom of falls.

along roadside

ditto

14081

Paspalum

ditto

✓
14082

Clerodendron fragrans
Vent.

ditto

✓
14083

Cladium leptostachyum
Nees & Meyen

swampy place on
plantation

✓
14084

*Hedychium corona-
rium* Koenig

along plantation road

✓
14085

Zingiber gerumbet
Rosc.

Wet gulch, shady places

✓
14086

X

Kalpi Valley - Aug 2

14087 *Cyrtandra grandiflora* Gaud.

on sides of gulch in open places

Small tree

14088

Chloris

apparently escaped from cultivation

14089

Fern

Diplazium amottii Brack

2 sheets of 1 specimen

✓
14090

Alyxia olivaeformis

Shrub

14091

Fern

Athyrium poiretianum

(Gaud.) Presl

14092

Fern

Asplenium horridum Kaulf

14093

Fern

Doodia kunthiana Gaud.

14094

Lobelia

Cyanea angustifolia

(Cham.) Hb.

Milky juice
Shrub 6 ft high

14095

Fern

Dryopteris propinqua

(R. Br.) Willd.

✓
14096 *Pittosporum* sp.²

Small tree
~~Shrubby tree~~

✓
14097

X

Tree X

✓
14098

Lobelia

Shrub

Scaevola chamissoniana
Gard.

✓
14099

X

Tree *

✓
14100

Suttonia Sessortiana

Tree

14101

Delinacella
frumida

14102

Fern

Dryopteris parastica
(L.) Kuntze

14103

Legume

Desmodium polycarpum
DC.

14104

Fern

Pityrogramma calomeloe-
na (L.) Link

14104a

ditto

14105

Cyrtandra pickeringii
A. Gray

Shrub.

✓
14106

X

Vine

801

✓
14107 *Syntherisma*
Heller

a large specimen

802

✓
14108 *Cyrtandra* *sesson-*
iana Gaud.

Tree

803

✓
14109 *Cassia*
Cassia laevigata Willd.

Tree

804

✓
14110

X

805

14111

Fern

Dryopteris cyathoides
(Kaulf.) Kuntze

3 sheets of spec.

14112

Fern

Dryopteris truncata
(Poir.) Kuntze

3 sheets of spec.

14113

Charpentiera obovatum
Gaud.

Tree

14114

Fern

Marattia douglasii PreslThe base is a large
starchy mass, nearly a
foot in diameter, the
pulp tastes like raw
potato

14115

Lobelia

Rollandia lanceolata
Gaud var. a. Hb.

14116

Sagittaria

Sagittaria sagittifolia

in Taro field, ~~introduced~~
introduced sp. well,
for its corns.

14117

Elmucella
(*Sagittaria*)

In ditch in Taro
field, growing in the
water

14118

Timbristylis

Timbristylis diphylla
Vahl

along ditch in
Taro field

14119

Elmucella

On bank in Taro
field, Probably same
as 117.

14120

Lemna

Lemna minor

in water of Taro
field

1 14121 *Chloris*
radiata
Set

Along stream
of Honolulu
Aug. 5

1 14122 *Andropogon*
sericeus

Escaped on
sta. grounds

1 14123 *Eriopogon*

Along road
Sta. grounds

✓ Peleolo Valley & Ridge
14124 Aug. 7, 1916

45141

Cladium meyerii Drake

✓
14125 *Sage*

65141

Gahnia beecheyi Moench

✓
1 14126 Wild Yam
Dioscorea bulbifera

08141

✓
1 14127 Parasite
Viscum articulatum
var. γ.

08141

✓
1 14128 Santalium Freycinetianum Gaud.

08141

✓
1 14129 Parasite
Viscum articulatum
var. β.

08141

14130

08141

1 14131

18141



1 14132 *Solvelia*

18141

Cyanea angustifolia
(Cham.) Hbd.



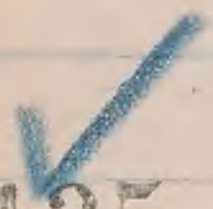
1 14133 *Cocculus Ferran-*
dianus

18141



1 14134 *Cassia laevigata*
Willd.

18141



1 14135 *Rock's new species*
Scaveola Gaudichaudii

18141

1

14136

Fern

Polypodium lineare
Thunb.

14137

Plantain

Peperomia reflexa Dietr.

14138

Osteomeles anthylli-
difolia Lindl.

14139

Eragrostis

14140

Crucianella variegata
dell.

14141 *Eragrostis*

14142 *ditto*

14143 *Chrysopogon*

Hilo Aug 17

14144 *Panicum
aquaticum*

14145 *Ischaemum*

Along bank of river + road
in city, in open ground. Long
thick creeping rhizomes.

Lava along bay
brushy

✓
14146

Passiflora foetida L.

Low or swampy
common along bay.

✓
14147

Piper nigrum

X

X

14148

Quercus
palustris

✓
14149

Cucurbitaria

✓
14150

Gratiola?

04141

14151 *Echinoclon*
(*salicoides*)

14151

14152 *Stenotaphrum*
(*dimidiatum*)

Low rock along bay
large bushes. Spikes
several & small. Seem
a little different from ^{S. segurei} ~~datum~~

14152

14153 *Scirpus*
lanceolatus

Scirpus lacustris L.

14154 *Pilea*

14154

14155 *Conyopora*

14155

Lipochorda comata
var. *littoralis*

✓
14156 *Scleria*

Scleria testacea Nees

✓
14157 *Scleria* (Junge)

Cladium leptostachyum
Nees & Meyen

✓
14158 *Beau*

Dioclea violacea Mart.

✓
14159 *Hibiscus*

Hibiscus youngianus
Sond.

✓
14160 *Plantago*

Plantago major L.

✓
14161

Sida

X

✓
14162

Cuphea

X

✓
14163

Scirpus

Himbristylis diphylla
Vahl

✓
14164

Chickweed

X

✓
14165

Kyllinga

Kyllingia brevifolia
Rottb.

✓
14166

Oxalis

Oxalis martiana Zuccar.

88141

✓
14167

Cyperus

Cyperus polystachyus
var. —

88141

✓
14168

Cyperus
= 167

Cyperus polystachyus
Rottb.

88141

✓
14169

Syntherisma
(hellou)

88141

✓
14170

Euphorbia
X

88141

X

14171

Clusia peruviana
adult

14171

14172

Lobelia

14172

Hilo Jan. 18

14173

Asparagus

Cult. in garden

14174

"*Ji*"

All these are along
by mouth of Rio

14175

Pennisetum

near garden

14175

14176

Cory

14177

Rubus

Rubus roseo-folius?

14178

Cyperus rotundus

Cyperus rotundus L.

14179

Oxalis

Oxalis corniculata L.

14180

Compositae

X

X

14181 *Echinops*

along ditch

18141

14182 *Paspalum*
virgatum

18141

14183 *Panicum*
berlandieri

18141

✓
14184 *Compositae*
✗

18141

✓
14185 *Convolvulus*

18141

14186 *Syntherisma*

along side of moor 18141
Cott.

set

✓
14187 *Hydrocotyle*
X

18141

X

✓
14188 *Syntherisma*
(lucida)

18141

14189 *Thymus*
Hibiscus tiliaceus

18141

14190 *Syntherisma*
parvum

18141

14191 *Elymus*
sanfranciscensis

1014

14192 *Paspalum*
viridulum

2014

14193 *Gnaphalium*
undulatum

The following day rain
& was Rain here for 24 hours
On most rocks near falls

St

14194 *Schizanthus*

ditto

1014

14195 *Calceolaria*
fosteri

ditto

2014

✓
14196

Peperomia
Peperomia

ditto

00141

14197

Festuca

ditto

00141

14198

Orchampsia

ditto. Low green
bunches, near the
water, mostly out of flower

14199

Oplismenus

shady gulch

00141

✓
14200

Asclepias

Asclepias curassavica
L.

Field (pasture)

00141

✓
14201

Yam?

gun, bank

10841

14202

Helianthus
antheralis

Reedy bank

10841

Kirkian Ranch - 3600 ft.

14203

Spergularia
(indica)

Aug. 19

10841

Pasture

14204

Holcus

canadensis

(indica)

Pasture, Various 10841

growing here been
sown in the pasture

in part grass & several have
become established 10841

14205

Calamagrostis
fosteri

Pasture

14206 *Nicholaena*
rosea

Side of gulch

14207 *Lobelia*

Pasture

Erythraea *palaeoides*
Gray

14208 *Panicum*

Side of gulch
herbaceous. Culms stiffly but
softly erect at base, the larger
sometimes becoming geniculate.
Blade flat.

14209 *Briza*
media

Pasture

14210 *Festuca*
megala

"

14211

*Promys
microps*

Pasture

11841

14212

*Anthracanthus
odoratus*

Pasture

11842

14213

*Lactylis
glomerata*

Pasture

11843

14214

*Paspalum
delicatulum*

Pasture

11844

14215

*Festuca*Was common throughout
the open woods &
pastures
brevicauda

11845

14216 *Agrostis*
alba

Pasture

8184

✓
14217 *Compositae*

Ravine

8184

✓
14218 *Euphorbia*
Euphorbia pepulus L.

"

8184

14219 *Bromus*
inermis

"

8184

July 20
14220 *Agrostis*
(*granulata*)

Side of ravine. In bunches
erect, culms up. Panicles
rather loose. Blades flat glaucous
above.

14221 *Agrostis verticillata*

Moist places in bottom of
stone ravine.

Set

✓
14222 *Myoporum sandwicense*

tree

1531

14223 *Poa annua*

side of gulch

✓
14224 *Carex*

Carex oahuensis var
lauratum

" 1532

14225 *Dioscorea*

" 1533

✓
14226

Carex

Carex macloviana D'Urv.

88841

✓
14227

Geranium

Geranium carolinianum
L.

88841

✓
14228

Rubus

88841

✓
14229

Oenothera

88841

✓
14230

Peperomia

Peperomia refractifolia

88841

14231 *Apocynis*
alba

Pasture

14232 *Calamagrostis*
fastida

Trailing plant
break down & muddle

✓ 14233 *Commelina*

Commelina nudiflora L.

✓ 14234 *Physalis*

Physalis peruviana L.

Slope Manna Kia (Hu Kai an Ranch)

14235 *Koeleria*

glomerata

3600 - 8000 - Aug. 21

8000 ft - small specimens

✓
14236

Compositae

Tetramolopium humile

5000 ft

4854

✓
14237

Compositae

5000 ft

4854

14238

Carex

5000 ft

4854

✓
14239

Euphonia

Euphonia chrysophylla
(Salicb.) Scam

Tree - 7500

4854

✓
14240

Sisyrinchium

Sisyrinchium arca

7500

4854

✓
14241 Mint

Stenogyne rugosa Benth.

7500 ft

14841

✓
14242 *Styphelia grayana*
Rock

shrub - dense hemi-
spherical, 7500

14243 Grass

Bunches in bare spots

14244

Kochia
glomerata

Bunches - one of the
dominant grasses from
6000-6500 ft.

14245

Agrostis
and eruphylla

Gulch 6000 ft

14246

Fern

Asplenium densum Brack.

On rocks in gulch
6000 ft

14247

Compositae

7454

14248

Compositae

Snaphalium japonicum

7455

14249

Fern

Pellaea ternifolia (Cav.) L.

ditto 246

7456

14250

D. Schimper

Bundles - One of the dominant
grasses for 6000 - 8000 ft
(+ higher)

21

14251

Panicum

Specimens with narrow
Paired

14252

Muhlenbergia
lanceolata

Open range 8854

14253

Smilax

5000 ft 8854

Smilax melastomaeifolia
var. subinermis Hbkd.

14254

Fern

Gulch 5000 ft 8854

Cibotium glaucum (J.E.
Sm.) H. & A.all sheets from 1 small
base - basal pinna - middle
pinna - Tip, - no trunk
on rocks in gulch same

14255

Fern

us 244

Asplenium densum Brack.

14256

Panicum

Gulch - long culm 8854

14257 Fern
Dryopteris paleacea
(Swartz)

14258 Fern
Sadleria souleytiiana (Gaud.)
Moore?

14259 Fern
Diplazium

14260 *Chenopodium*
Chenopodium ambrosioides
L.

14261 Fern
Asplenium incisicium
Brack.

14262 *Rumex acetosella*
Rumex acetosella

specimen from (floral)
+ anther base

all spec from 1 (floral)

14263

Fern

Asplenium imitatum Brack

68841

14264

Panicum

Large specimen

68841

14265

Linum

68841

Kukui Ranch - about 4000 ft.

14266

*Bromus
pilosus*

Aug. 20 (Sunday afternoon)

68841

Pasture

14267

*Andropogon
scleratus*

Pasture

68841

✓
14268

Oxalis

Oxalis corniculata L.

Ravine

14268

14269

Poa

annua

Ravine

14269

✓
14270

Euphorbia

Euphorbia lorifolia
var. *gracilis*

Small tree in Koo
forest. Called Coco
has been tested for rubber
& not satisfactory.

14270

14271

Cirsium

lanceolatum

14271

✓
14272

Rubus

X

Ravine

14272

X

✓
14273

Mallow

Postum

ATSAI

14274

Fern

Racum

ATSAI

✓
Microlepia strigosa (Thunb.) Presl

14275

X

Small tree-racum

X

14276

Fern

Racum

ATSAI

✓
Asplenium adiantum
nigrum L.

14277

Argemone

Postum

ATSAI

Argemone mexicana L.

Slopes of Mauna Kea - North side 8000-11000 ft. Aug. 22

✓ 14278 Composite

Tetramolopium humile (Gray)
Hb. var. B.

✓ 14279

Styphelia grayana Rock

14280 Silver sword

Argyroxiphium sandwicense DC

✓ 14281

Composite

Kaillardia ciliolata DC

✓ 14282

Leucaena?

Acacia Koa Gray
also unnamed sp.

Slope of one of the peaks
above 11000 ft

Shrub - 2 ft
ditto

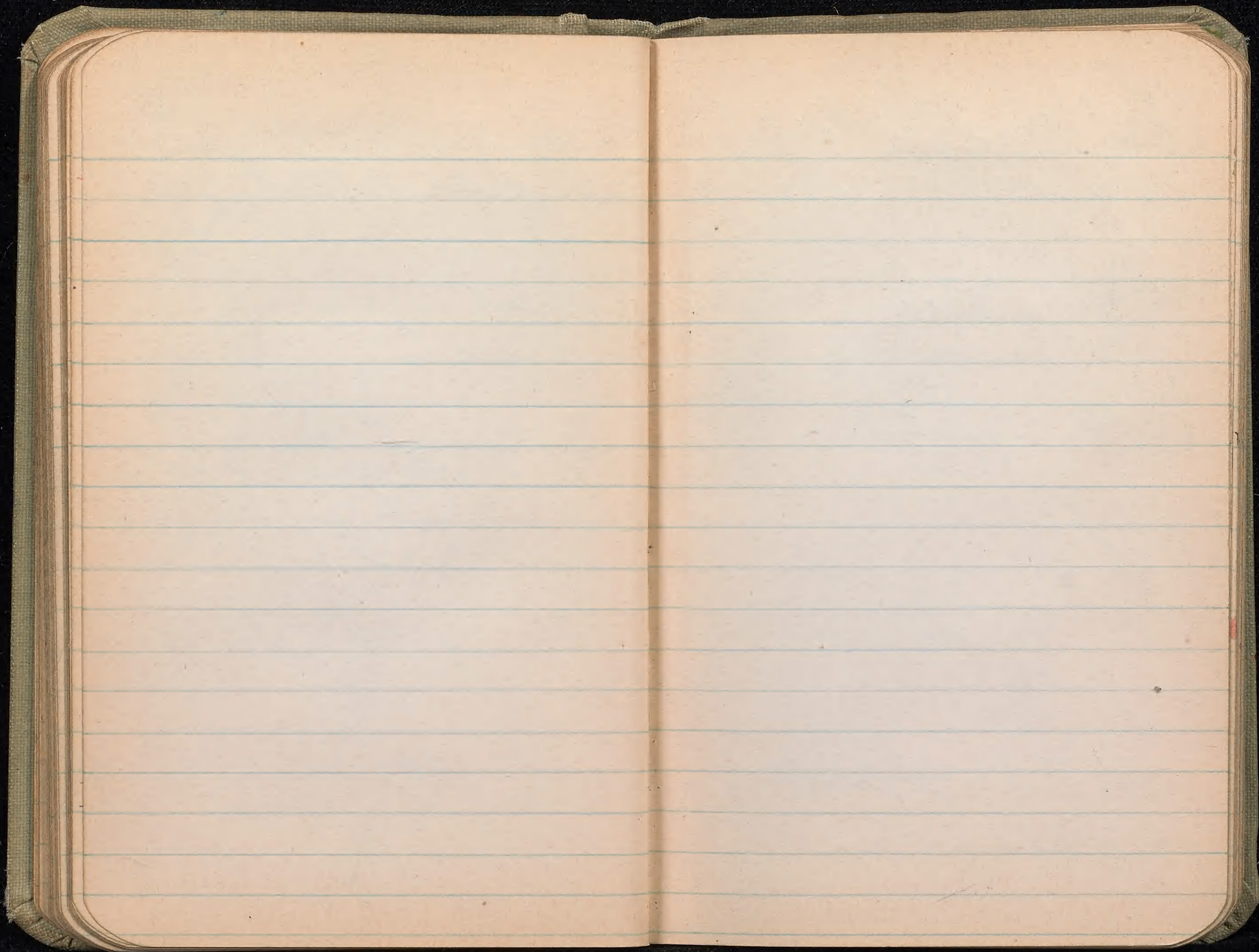
8784

ditto. Plants scattered + glaucous
can be seen for long distance.
Stalk 2-3 ft. high.

ditto - small shrub 8784

ditto.

8884



✓
14283

Carex

Carex oahuensis C.A. May

det'd

68541

14284

Kallieria

det'd. This is no 285
the only grasses on upper
slopes.

14285

Agrostis

det'd.

68541

✓
14286

~~Geranium~~
Potentilla

Shrub 3 ft
10500

68541

✓
14287

Gnaphalium

Gnaphalium sandwicense

det'd

68541

✓
14288

Vaccinium
Vaccinium Fauriei

delto

✓
14289

Rumex
Rumex giganteus Ait

delto - in sand.

✓
14290

Coprosma montana
Hb.

Shrub. delto

14291

Pteris
Pteris exalata Sand.

Among rocks, delto

14292

Silene
Silene struthioloides

delto -

✓
14293

Achillea
Achillea millefolium L.

Pasture - 4500 ft

✓
14294

Solanum

ditto

4500 ft

✓
14295

Fragaria
Fragaria chilensis
Ehrh.

ditto

4500 ft

14296

✓
Chloris
(*gymna*)

Pasture 3600 ft

✓
14297

Rubus

Pasture 4000 ft

14298

Agrostis

✓

14299

Helena

✓

14300

7 miles south Kukaiak
7000 ft, Aug 23

Rhus semialata var.

sandwicensis

14301

Veronica

X

14302

Composit

Sandy open area
Lava - branches dense
on rocks a foot in diam
8000 - 11000 ft,

Lava around about
Tribes 9 - 11000 ft
Shrub not velvet. pan. dense not
spreading in glens as in flower

Woe

Weed in pasture

X

✓
14303

Clerodendrum

dills

6084

✓
14304

Farfugium

dills

40841

✓
14305

Lobelia

Wet shady woods

Clermontia pyramidalis
Hb.

✓
14306

Fern

All in genus *Farfugium*
Wet shady woods

Pteris excelsa Sand.

✓
14307

Fern

Dryopteris hawaiiensis
(Hillebr.) M. J. R.

60841

14308 ✓ Fern

Dryopteris rubiginosa
(Brack.) Kuntze

14309 ✓ Fern

Dryopteris fuscoviridis
(Hillebr.) W. J. Rob.

14310 ✓ Fern

Othyrium poiretianum
(Gaud.) Presl

14311 ✓ Fern

Dryopteris hawaiiensis
(Hillebr.) W. J. Rob.

14312 ✓ Fern

Dryopteris

14313 ✓ Fern

14314

Fern

Polypodium lineare Thunb.

On branchy tree 1841
ditto

14315

Solanum

Solanum pseudo-capsicum

Bush in pasture 1841

14316

Umea

Umea florida v. *australis*
(Dr.)

Common on branchy
trees & often more
covering a tree

14316a

Spec. indifferent, but probably
Pharmelia cetrata Ach.

14317

Carex

Carex macloviana

Rare with the ferns

Umea, Aug. 25 - Pasture, nr

14318

Umbellif

In Mt. West, 2700-3000 ft
Roughly weed - com-
mon in places

✓
14319

Ashtelia Koa

Alala

Acacia koaia Hbd.

✓
14320

Chenopodium

Chenopodium sandwicense Moq.

✓
14321

Cassia

Cassia laevigata Willd.

✓
14322

Nototrichium sandwicense (Gray) Hbd.

✓
14323

Xanthium

Xanthium strumarium

Common on hills

Weld along road
bad swell

Road side 1884

Tree, small, 1884
rare.

Common weed
in pastures

14324

Fern

Onyopteris Keraudreniana
(Gaud.) A. Chr.

Forest - 4000 ft 48841

14325

Fern

Onyopteris Keraudreniana
(Gaud.) A. Chr.

ditto 68841

14326

Lobelia

Clermontia obrepans-
morpha R. & P.

ditto 68841

14327

—

Tree - ditto 88841

14328

Composita

X

Meed near ditto 88841

X

14329

Fern

Sadleria souleytiama (Gaud.)
Mooreditto - Petworth
Pinnae about 60 pair

14330

Fern

Dryopteris glabra (Brack.)
Kuntze

ditto

08841

14331

Fern

Dicranopteris owbyhensis
(Hook.) W. J. Rolfe

ditto - ditto

08841

14332

Fern

Dryopteris stegogramm-
oides (Baker) C. Chr.

ditto

08841

14333

Fern

Dicranopteris glauca
(Thunb.) Underw.

ditto - Climbing

14334

Fern

Dicranopteris glabra
(Brack.) Kuntze

Ditto

18841

14335

Fern

Cibotium glaucum (J. E.
Smith) Hook. & Arn.

Tree fern - see photo
ditto

14336

Fern

Athyrium poiretianum
(Gaud) Presl

ditto

18841

14337

Puffball

ditto

18841

14338

Clapa

Cheirodendron quadri-
chaudii Seem.

vel in appressure

✓
14339

Kolea

Suttonia sessertiana (Rt.)

May

Tree-in upper pasture

✓
14340

Solanum?

in Pasture

04841

✓
14341

Cuphea?

in Pasture

04842

✓
14342

Compositae

ditto

04843

✓
14343

Plantago

ditto

04844

✓
14344

Compositae

ditto

44841

✓
14345

Nairo

✓
Myoporum sandwicense
Gray

tree in pasture 44841

✓
14346

Pua

Oemanthus sandwicensis

tree in pasture 44842

✓
14347

Opiku

Strawsonia

tree in pasture

14348

✓
Hordeum
murinum

weed in pasture
common - "Foxtail"

✓
14349

Medicago

Medicago lupulina L.

14350

Erigeron? on
Syntherisma
mucosa

✓
14351

Erigeron

Erigeron purpureum L.

✓
14352

Erigeron

X

✓
14353

Euphorbia

X

Weed in pasture

Pasture

Weed in pasture

ditto

ditto in shady

place

✓
14354

Veronica

Went in pasture

✓
14355

Gratiola

ditto

6664

Anagallis arvensis L.

aug. 26

Wainona - Forest on top of Mt.

14356

Fern

Forest very wet - mostly ferns,
NW. of Mt. Carlin - 4000 ft.
on tree trunk 6664

Polypodium carmentosum

Brack

14357

Fern

Asplenium pseudofalcatum

Hillebr.

Showering profuse
ferns

14358

Fern

Diplazium

Large fern + basal pinna
mid. pinna
top.

✓
1 14359 *Metrosideros collina*
polymorpha var. ? (*glaberrima*)

14360 Fern
Polypodium tripinnatifidum (Gaud.) Presl ?

14361 Fern
Polypodium pellucidum
Kaulf

14362 Fern
Elaphoglossum gorgoneum
(Kaulf.) Perack.

✓
14363 *Lobelia*
Chromola parviflora
Gaud.

Small tree 86841

On tree trunk (Fern)

On tree ^{fern} trunk 86841

On tree ^{fern} trunk 86841

Small tree 86841

1 14364 ~~Fern~~

Hymenophyllum obtusum
Hook. & Arn.

Air tree from trunk

14365 ~~Fern~~

*Polypodium hymenophyl-
loides* Kaulf.

Air tree from trunk

✓ 14366 *Alyxia olivaeformis* Gaertn.

Small tree

14367 ~~Fern~~

Polypodium pseudogrammitis
Gaertn.

Air tree from trunk

14368 *Yasumaea*?

Cyrtandra platyphylla
var. *membranacea* Rock

Bush

✓ 14369 Labiales?

Stemogyne calaminthoides
Benth.

Vine

83841

✓ 14370 *Suttonia Sandwicensis*
(DC.) Mez.

Small tree

83842

✓ 14371 ~~X~~ Lichen

Sticta (Stictina) tomentosa
(Sw.) Ach.

on tree branches

83843

✓ 14372 Fern

Polypodium tripinnatifidum (Gaud.) Presl?

on tree fern trunk

83844

✓ 14373 Fern

Asplenium nitidulum
Hillebr.

on base of tree fern

83845

14374 ~~Fern~~

Trichomanes radicans
Swartz

On tree fern trunk 8541

✓ 14375 Lily *Asplenium vera-*
troides Gaud.

On tree trunk 8541

14376 *Calamagrostis*
forskii

Growing in some what less
densely shaded space between
pines.

14377 ~~Fern~~

Polypodium tamariscifolium Kaulf

On tree fern trunk

✓ 14378 *Carex*

Carex Randviensis Boeckl.

Among ferns

8544

✓
14379

Uncinia

Uncinia uncinata
(L. f.) Kuhn.

Many ferns

88641

14380

Fern

Polypodium pellucidum
Kaulf.

On tree fern trunk

88641

14381

Fern

Asplenium pseudofalcatum
Hillebr.

At base of tree fern

88641

✓
14382

Heliconia

Heliconia obtusa var.
emotata Hbkd.

Many plants

88641

14383

*Vaccinium pendu-
liflorum* s. *gemmaeum*
Hbkd.

Shrub

88641

✓
14384

✓
Orchid

Siparis hawaiiensis
Mamm

On Tree trunk 1884

✓
14385

Shrub

✓
14386

—
X

Shrub - fls yellow X

✓
14387

Fern

Asplenium sphenatorum
Hillebr.

at base of tree fern 1884

✓
14388

Fern

Asplenium unilaterale
Sam.

Little 1884

✓
14389 Cyperus
Cyperus strigosus
var. insularis Kueh.

Among ferns 18841

✓
14390 Fern
Pteris excelsa Gand

a few mid pinnae 18842
I think I have this

✓
14391 Solium
Vertera depressa Banks

Flat space between ferns

✓
14392 Fern
Dryopteris glabra (Brack.)
Kuntze

On tree trunks 18843

✓
14393 Liliaceae
Phyllostegia vestita Benth

Vine 18844

14394 Fern

Sadleria hillebrandii W. J.
Rob.

14395 *Dalman*

Woods open space
between ferns.

14396 Tree fern
Cibotium wenzigii Hook.

Sections of petiole, lower pinnae
mid pinna - trunk is mid
6 to 10 feet

✓
14397

x

Small tree

x

14398 Fern

Othyrium pointianum
(Sand) Tree

✓
14399

Pelea pseudoaristata
Rock

Small tree

14399

✓
14400

~~Lycopod~~
Lycopodium venustulum
Sand.

On tree trunks

14400

✓
14401

X

Shrub.

14401

✓
14402

Gouldia

Small tree

14402

✓
14403

Broussaisia
pellucida Gauss.

Shrub

14403

✓
14404 *Metrosideros collina*
polymorpha macrophylla
Rock

Small Tree

40441

✓
14405 *Ilex anomala* forma
sandwicensis Soer.

Small Tree

40442

✓
14406

Alyxia olivaeformis
Gauch

Small Tree

40443

✓
14407

Vaccinium penduliflo-
rum gemmaceum

Small Tree

40444

✓
14408

Scleria

Hb.

Clemmontia parviflora
Gauch

Shrub

40445

✓ Sheep Station - Hummala
Kaleihua - Aug-27. 6000 ft.

✓ 14409 *Stachys*
media

Silene gallica L.

✓ 14410 Wild carrot
X

✓ 14411 *Helle*

Hesperoonide sandwicensis
Wedd

✓ 14412 ~~X~~ Lichen

Sticta (*Stictina*) *mougeotiana*
v. *aurigera* (Del.) Nyl.

14413 *Panicum*

Moist wooded hill

✓
Patches on open
slope

✓ 14414 Thistle

Cirsium lanceolatum

14415 Fern

Cephaelis adiantum

✓ 14416 Fern

Pteris caudata L.

14417 *Coprosma montana*
(Gray) Hillebr.

14418 *Alnus*

Mountain wood

Small tree
abundant

Lava flow

14419 ✓ Koeleria

Lawn flow

11441

14420 ✓ Erica

" shrub 11441

Vaccinium reticulatum

14421 ✓ (Cyathodes) Styphelia
grayana Rock

" shrub 11441

14422 ✓ Erica

" shrub 11441

Vaccinium reticulatum

14423 ✓ Erica

" shrub 11441

Vaccinium reticulatum

✓
14424

Rubus

X

✓
14425

— X

✓
14426

Zen

Polypodium pellucidum
Kaulf

✓
14427

Zen

Polypodium lineare Humb

✓
14428

Compositae

Raillardia ciliolata
DC.

Lava plant 544

X

"

Shrub 544

"

544

"

544

"

Shrub 544

✓
14429 *Coprostima emodeoides*
A. Gray

Lava flow + road

✓
14430 *Trifolium*
Medicago

Pasture

✓
14431 *Koeleria*

Pasture

✓
14432 *Peperomia*
Peperomia reflexa Dietr.
f. parvifolia C. B. C.

Lava flow

✓
14433 *Carex*
Carex oahuensis
C. A. Mey

"

14434 ^o Browne

Pasture

4844

14435 ^o Fulture

Pasture

6844

14436 ^o Fulture

Pasture

0844

14437 ^o Schampin

Pasture

✓
14438 ^o Rules
X

Yacow blow
Bewen Saluam X

14439 ✓ Fern

Asplenium adiantum-nigrum L.

14440 O Oreganites

✓ 14441 Oreganites
no name

14442 O Poa
canadensis

✓ 14443 Chenopodium

Loose floor

0844

Sandy plain
black narrow-leaved

0444

Mud in pasture

0444

around water tank

Mud in pasture

0444

✓
14444 *Dodonaea*

Dodonaea viscosa Sp.
thuilata (Sm.) HBK.

Sandy plain
shrub 2-3 ft.

14445 *Guapastus*

Same place
Plains glade.

14446 *Fishia*

Wet wooded hill
shrub - apparently indig.
leaves - but may be intro-
duced - Bushy 1-5 ft.

14447 *Guapastus*

Mass, slope in open
in the above hill.
Resembles all the plants
similar - leaves; blue blades;
narrow panicle.

14448 *Guapastus*

growing with 445 but blades
distinctly broader & panicle less
clustered

14449

✓ *Brassica*
Brassica

Wooded hillside

14450

○ *Poa*
fulgens

ditto. 10441

Upper part of Mauna Kea - Aug 26

14451

✓ *Compositae*
Raillardia ciliolata var.
juniperoides Gray

Above timber line 10442
Lowest of the shrubs to dis-
appear - see photo

14452

○ *Agrostis*

Above timber line 10443
A large specimen but
the largest. Open under snow
spice above 10000 ft

14453

○ *Koeleria*

10444
Near the lake below
summit. The highest
alt. at which we plant
was seen

✓
14454

Cerastium

Cerastium triviale Link

ditto

4244

14455

Poa annua

ditto

4244

✓
14456

Poa polystris

ditto

14457

Koeleria

Below timber line
near Siphon tree

Sandy Plain west of Sheep Station between

14458

Eragrostis

Wheeler Lea Aug. 29.

Large bushes - erect, numerous
pinnate dark colored

See

14458 *Eragrostis*

sd

14460 Wernia, Aug 29

Polygonum

Polygonum sp.?

14461 *Chaetochloa*
glauca

14462 *Echinops*
frumentaceus

✓
M. J. J. Ranch (Punahoa)
14463

Claoxylon sandwicense

Same ^{locality} as 458 but fruit
not. Pinnate spreading, light
colored. These 2 species are the
dominant grasses on the plain
between the 2 volcanoes. 0044

Aug. 30.
Hill near Top of 1111

14466 *Bromus*
micranthus

Hill

14467 *Samanea*
sambucifolia

Abundant on hill
open forest

14466

Shrub in late flower

✓
14467

— Legume
Euphorbia monosperma
Gaard.

Tree - Late flower

14468

Cyrtomium canyotidium
(Wall.) Presl

near top of hill
in woods

14469

Fern

Microlepia strigosa (Thunb.)
Presl

Near top of hill
on rocks

14470

Saccharum

X

Ward in pasture
on hill

14471

Veronica

X

ditto

14472

Straussia

Tree - on hill

14473

Annona

Annona cherimolia

Tree - on hill - Petals
3 lobes - very thick & fleshy
about as thick as wide white
fl. Sweet smelling - petals
when open above this

14474

*Agrostis
multicellata*

In gully of hill 5441

14475

*Panicum*On side of hill in rather
open dry woods, large
spreading bunches.

14476

*Dracopis*Open woods on hillside.
Culms often long decumbent
Panicum at maturity stiffly
horizontally spreading, and
lower branches somewhat reflexed.

14477

Carex
Carex sandwicensis
var —

Gully in hill

14478

*Tropaeolum**Tropaeolum majus* L.

Gully in hill

5441

14479 *Ophismenus*

Lawn flower

1844

14480. Fern

Asplenium furcatum
Shrub

ditto

1844

14481 Fern

Pellaea ternifolia (Cav.)
Shrub

ditto

1844

14482 Fern

Asplenium adiantum-
nigrum L.

ditto

1844

14483

Lepidium

Lepidium virginicum
L.

ditto

1844

✓
14484

Euphorbia
Euphorbia multiformis
H. & A.

Shrub or
dillo - small tree

✓
14485

Plectranthus
Plectranthus parviflorum Willd.

dillo

✓
14486

Santalum
Santalum pilgeri
var. *luteum* Rock

dillo - small tree

✓
14487

Osteomeles
Osteomeles anthyllifolia Lindl.
Rosaceae

dillo - tree 1844

✓
14488

Cocculus
Cocculus ferraudianus

dillo - tree 1844

✓
14489

Little vine

✓
14490 *Dipomoea*

Among weeds on bank
fls white

✓
14491

Dipomoea

Little fls blue

14492

Chloris gayana

From hay field of
Ranch

14493

✓ *Dipomoea* near Ranch Aug 31

Eragrostis

Upper slopes of gully on hill
Side of hill in open woods,
Branches large, loose, slender shoot
root stems present

14494 *Eragrostis*
= 476

Growing with 14491
493 but quite
distinct

14495 *Eragrostis*
= 493

growing with 453
but panicles more
contracted

✓ 14496 *Lichen*

Theloschistes flavicans (Sw.)
Norm.

On trees on top of hill
isolated

✓ 14497 *Osmanthus sand-
wicensis* (Gray) Knobl.

Tree in woods on hill

14498 *Fern*
Pteris irregularis Kaulf.

In woods on hill
Fertile fronds much
dissected

✓
14499

Solanum

*Solanum pseudocap-
ricum* L.

in woods on hill

✓
14500

— (Euphorb.)
Claoxylon sandwicense
Mull. Arg.

tree - on hill

✓
14501

Claoxylon sandwicense
= 500 m. a.

ditto - more
staminate

✓
14502

Stranvaesia

tree on hill

✓
14503

x —

tree on hill

✓
14504

Labiate
Stachys arvensis L.

weed in hill
pasture in woods

14505

✕
Juncus

on Peach

✓
14506

Pittosporum *Hosmeri*
Rock

tree

✓
14507

Annona
chirimolia

tree on hill - fruit

14508

Annona *chirimolia*

tree - on lava

✓
14509

Gracilaria?

Brasema aurea

Sept 1

Kualalai Mt. above the Hual

14510

Koeleria

14511

Festuca

14512

Uncaria

✓
14513

Cheirandron gaudichaudii var. *a*

Tree on lava - 1000 ft
Inflorescence a long com-
pound raceme - 2 secun-
dary racemes in press & one
small rosette of leaves

In woods 5000 ft

In woods 5000 ft

ditto

Tree - Lava woods
5000 ft

✓
14514

Pisonia?

Colpidia Brunoniana
(Endl.) Heimerl.

Tree - Lava woods 41641
Fruit very sticky 4000

✓
14515

Urera sandwicensis
Weed

Tree - Lava woods
4000 ft

✓
14516

Charpentiera obovatum
Sand.

Tree - Lava woods
4000 ft

✓
14517

Virola

Anagallis arvensis L.

Hualalai Mt. Summit (8000) to timber

14518

Panicum

Moist woods - 4500 ft

lim Sept 2

in woods just below timber line.

14519 *Eragrostis*

14520 *Koeleria*

14521 *Dichromyia*

14522 *Circaea*

Vaccinium reticulatum
Sm.

14523 *Compositae*

Raillardia acalva DC.

Open places along trail
just below timber line.
prostrate bunches, the culms
mostly prostrate, at maturity
the flower culms ^{flexuous} elongate
and become ^{flexuous}.

Near Summit

Near Summit

Near summit, small
shrub

Small shrub - rare
Summit

✓
14524

Fragaria

Fragaria chilensis Ehrh

dune Wood 6E

14524

✓
14525

~~X~~
Geranium

dill - ~~X~~ 65041
Hens

✓
14526

Lythrum?

Lythrum maritimum
H.B.K.

dill - scrubby 05041

14527

Ruellia

Michx. sum.
glabrous

14527

✓
14528

Carex

Carex macloviana

dill

14528

14529 *Agave*

ditto

14530 *Festuca*

at summit

14531 *Calamagrostis*

at summit

✓
14532

near summit

✓
14533

Rhynchospora

about 6500

Gahnia gaudichaudii

145

- 534 Cypripedium little
- 535 Robinsonia - woods near
the bridge
- 536 Geranium - woods 3000
- 537 Equisetum - near
timberline
- 538 - Mallow - on lava
- 539 - Cassia - shrub, on lava
- 540 - Cotton tree - tree
on lava - Photo

145

145

14

The above copied
in my book.
R. B. W.

14

Go

